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(FILE 'HOME' ENTERED AT 14:22:55 ON 04 MAY 2004)

FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED
AT 14:23:07 ON 04 MAY 2004

L1 6740 S AGE (L) MACULAR? (L) DEGEN?
L2 129 S L1 AND (MIG OR IP10 OR MONOLINE? OR INTERFERON?)
L3 72 DUP REM L2 (57 DUPLICATES REMOVED)
L4 30 S L3 AND (VIR? OR VECTOR OR RETRO? OR LENTI? OR HIV? OR MUL? O
L5 30 SORT L4 PY
L6 27 S L5 AND (NEOVAS? OR ANGIO? OR VASCU? OR VESS?)
L7 27 SORT L6 PY
L8 859214 S NEOVAS? OR VASCUL? OR ANGIOGEN?
L9 520435 S EYE OR OCULAR OR INTRAOCULAR
L10 371 S L1 (L) L8 (L) 9
L11 430320 S LENTIVIR? OR HIV?
L12 3 S L1 (L) L8 (L) 9 (L) L11
L13 1 DUP REM L12 (2 DUPLICATES REMOVED)
L14 1429 S L9 AND (GENE THERAPY)
L15 109 S L14 (L) L11
L16 79 DUP REM L15 (30 DUPLICATES REMOVED)
L17 79 FOCUS L16 1-
E APPUKUTTAN BINOY/AU
L18 18 S E3
L19 14 DUP REM L18 (4 DUPLICATES REMOVED)
L20 6 S L19 AND (LENTI? OR HIV)

=> d an ti so au ab pi l20 4 5

L20 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:334392 CAPLUS

DN 138:348751

TI **Lentiviral** vector-mediated gene transfer and uses thereof

SO U.S. Pat. Appl. Publ., 61 pp., Cont.-in-part of U. S. Ser. No. 25,264.
CODEN: USXXCO

IN **Appukuttan, Binoy**; Stout, J. Timothy

AB The present invention provides **lentiviral** vectors that are
useful in human gene therapy for inherited or acquired proliferative
ocular disease. It furnishes methods to exploit the ability of
lentiviral vectors to transduce both mitotically active and
inactive cells so that eye diseases may be treated.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003082159	A1	20030501	US 2002-245050	20020917
US 2002114783	A1	20020822	US 2001-25264	20011219
WO 2004027033	A2	20040401	WO 2003-US29534	20030917

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,
CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,
MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ,
TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,
RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG

L20 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:487422 CAPLUS

DN 137:57587

TI **Lentiviral** vector-mediated gene transfer and uses thereof

SO PCT Int. Appl., 91 pp.

CODEN: PIXXD2

IN **Stout, J. Timothy**; **Appukuttan, Binoy**

AB The present invention provides a means of human gene therapy for inherited
or acquired proliferative ocular disease. It furnishes methods to exploit
the ability of **lentiviral** vectors to transduce both mitotically
active and inactive cells so that eye diseases may be treated.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002049677	A1	20020627	WO 2001-US49241	20011218	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	AU 2002034053	A5	20020701	AU 2002-34053	20011218	
	EP 1343532	A1	20030917	EP 2001-985065	20011218	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		

L17 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:211996 CAPLUS
 DN 140:241009
 TI Recombinant **lentiviral** vector pseudotyped with the hemagglutinin protein for gene transfer into the retina and use for **gene therapy** of **eye** diseases
 SO Eur. Pat. Appl., 22 pp.
 CODEN: EPXXDW
 IN Rolling, Fabienne; Cosset, Francois-Loic
 AB The present invention relates to a novel **lentiviral** vector particularly well shaped for performing gene transfer into the retina. These **lentiviral** vectors are pseudotyped with a HA protein from an orthomyxovirus and comprise one or several gene(s) useful for preventing or treating diseases of the **eye**. The invention also relates to compns. and methods for preventing or treating diseases of the **eye**, using the vector of the invention to transfer selected genes suitable for preventing or treating diseases of the **eye**.
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI EP 1398041 A1 20040317 EP 2002-292255 20020913
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
 WO 2004024190 A2 20040325 WO 2003-EP11815 20030915
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L13 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1
 AN 2003064911 MEDLINE
 TI Lentivirus-mediated expression of angiostatin efficiently inhibits neovascularization in a murine proliferative retinopathy model.
 SO Gene therapy, (2003 Feb) 10 (3) 219-26.
 Journal code: 9421525. ISSN: 0969-7128.
 AU Igarashi Tsutomu; Miyake Koichi; Kato Ko; Watanabe Atsushi; Ishizaki Masamichi; Ohara Kunitoshi; Shimada Takashi
 AB Ischemic retinal diseases, such as diabetic retinopathy, retinopathy of prematurity, and **age-related macular degeneration**, are a major cause of blindness worldwide. Angiostatin is an internal peptide fragment of plasminogen that inhibits endothelial proliferation in vitro and tumor growth in vivo. We now demonstrate that **HIV** vector encoding angiostatin (**HIV**-angiostatin) can inhibit retinal **neovascularization** in a mouse model of proliferative retinopathy. Intravitreal injections of **HIV**-angiostatin led to stable expression of the angiostatin gene in retinal tissue. Retinal **neovascularization** was histologically quantitated by a masked protocol. Retinal **neovascularization** in the eye injected with **HIV**-angiostatin was reduced in 90% (9/10; P=0.025) of animals, compared with the eye injected with phosphate-buffered saline. Reduction of histologically evident **neovascular** nuclei per 6-microm section averaged 68%, with maximal inhibitory effects of 87%. **Neovascularization** was not reduced in the eyes injected with **HIV** vector encoding enhanced green fluorescent protein. This is the first report that **HIV**-angiostatin can reduce **neovascular** cell nuclei in a murine proliferative retinopathy model. These data suggest that the anti-**angiogenic** activity of angiostatin has therapeutic potential for the treatment of retinal **neovascularization**.

L Number	Hits	Search Text	DB	Time stamp
5	2	Appukuttan NEAR Binoy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 14:56
6	5	Stout NEAR Timothy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 14:56
8	2051	age NEAR related NEAR macular NEAR degeneration	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:01
9	58290	lentivir\$9 or HIV\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 14:58
10	503	(MIG SAME IP10) OR (monkine NEAR induced WITH interferon) OR (interferon SAME inducible NEAR protein)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:00
11	8	(age NEAR related NEAR macular NEAR degeneration) and (lentivir\$9 or HIV\$5) and ((MIG SAME IP10) OR (monkine NEAR induced WITH interferon) OR (interferon SAME inducible NEAR protein))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:01
12	345	(age NEAR related NEAR macular NEAR degeneration).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:02
14	89	((age NEAR related NEAR macular NEAR degeneration).clm.) and (lentivir\$9 or HIV\$5).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:03
16	25	((age NEAR related NEAR macular NEAR degeneration).clm.) WITH (lentivir\$9 or HIV\$5).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 15:05
17	23	(US-6489305-\$ or US-6397849-\$ or US-5824299-\$).did. or (US-20030191072-\$ or US-20030158112-\$ or US-20030125521-\$ or US-20030119112-\$ or US-20030113870-\$ or US-20030109438-\$ or US-20030105055-\$ or US-20030105013-\$ or US-20030105012-\$ or US-20030105011-\$ or US-20030100497-\$ or US-20030082159-\$ or US-20030045498-\$ or US-20020194630-\$ or US-20020183253-\$ or US-20020137678-\$ or US-20020114783-\$).did. or (WO-9737542-\$ or WO-9811218-\$).did. or (WO-9737542-\$).did.	USPAT; US-PGPUB; EPO; DERWENT	2004/05/04 15:05
-	708944	neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:10
-	289121	eye or ocula\$5 or intraocular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:46
-	9281	(neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) SAME (eye or ocula\$5 or intraocular)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:46
-	35424	(neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:47
-	20185	(retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:59

-	4335	((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3) and ((neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:51
-	3835	((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3) and ((neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular))) and (gene ADJ theras\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:51
-	521	((((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3) and ((neovascularization or angiogen\$6 or capillary or vessel\$3 or vascularization) and (eye or ocula\$5 or intraocular))) and (gene ADJ theras\$5)) and (macular ADJ degeneration)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 15:53
-	3340	(neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:21
-	637	((neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)) and ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:04
-	9	((neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)) SAME ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:05
-	2	Appukuttan NEAR Binoy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:07
-	4	Stout NEAR Timothy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:08
-	24	((neovascularization) SAME intraocular) and ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:27
-	30203	Monokine ADJ induced ADJ by interferon\$9	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:29
-	3	((neovascularization) SAME intraocular) and (MIG or IP10)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:33
-	172	ocular SAME gene ADJ therapy	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:33
-	18	(ocular SAME gene ADJ therapy) and ((neovascularization or angiogen\$6) SAME (eye or ocular or intraocular)) and ((retrovir\$5 or lentivir\$5 or Moloney or HIV) WITH vector\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/29 16:34
-	18	(US-6397849-\$ or US-6489305-\$).did. or (US-20020114783-\$ or US-20020183253-\$ or US-20030045498-\$ or US-20030082159-\$ or US-20020137678-\$ or US-20030100497-\$ or US-20030105011-\$ or US-20030105012-\$ or US-20030109438-\$ or US-20030105013-\$ or US-20030113870-\$ or US-20030125521-\$ or US-20030119112-\$ or US-20030158112-\$ or US-20030105055-\$ or US-20030191072-\$).did.	USPAT; US-PGPUB	2003/10/29 16:40
-	2	("6375929").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:45

-	19	ryan SAME hinton	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:08
-	366	ryan AND retroviral	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:08
-	31	(ryan AND retroviral) and neovascularization	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	238	RYAN NEAR STEPHEN	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	1	(RYAN NEAR STEPHEN) and neovascularization	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	2	(RYAN NEAR STEPHEN) and retroviral	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 11:12
-	23	neovascularization SAME retrovir\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:13
-	37	retinopathy SAME retrovir\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:14
-	175	(neovascularization) SAME intraocular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:21
-	0	retrovir\$5 SAME IP10	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:37
-	8	retrovir\$5 SAME Mig	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:39
-	8	retrovir\$5 SAME IP-10	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:42
-	120	retrovir\$5 SAME bcl-2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/31 12:42